Figure 1

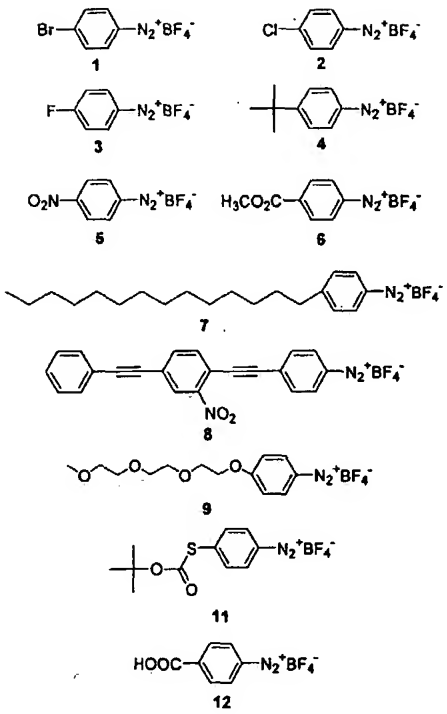
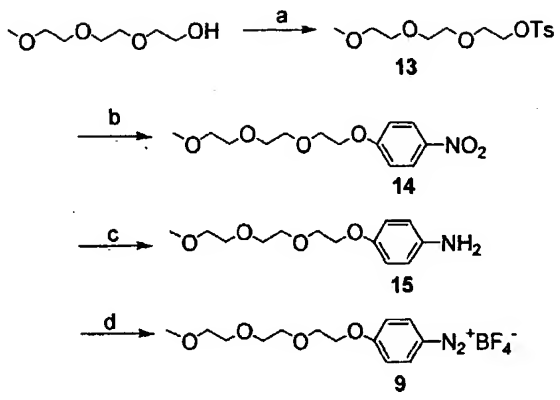

Br
$N_2^+BF_4^-$
1
Cl
$N_2^+BF_4^-$
2
F
$N_2^+BF_4^-$
3
$N_2^+BF_4^-$
4
O_2N
$N_2^+BF_4^-$
5
H_3CO_2C
$N_2^+BF_4^-$
6
$N_2^+BF_4^-$
7
$N_2^+BF_4^-$
NO_2
8
O
O
O
O
$N_2^+BF_4^-$
9
S
O
O
$N_2^+BF_4^-$
11
HOOC
$N_2^+BF_4^-$
12

Figure 2



a) TosCl, H_2O, THF b) 4-nitrophenol, DMF, K_2CO_3 c) H_2, Pd/C d) $NOBF_4$, CH_3CN

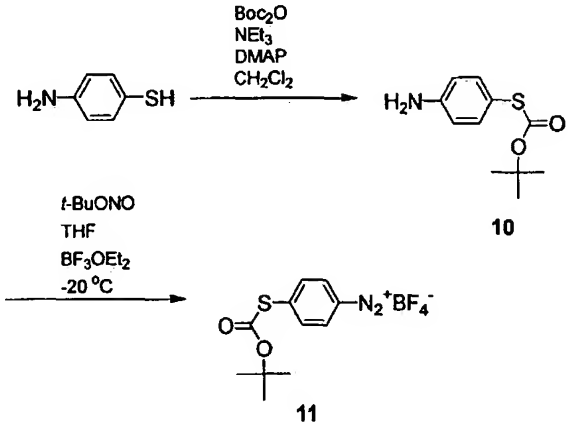


Figure 3

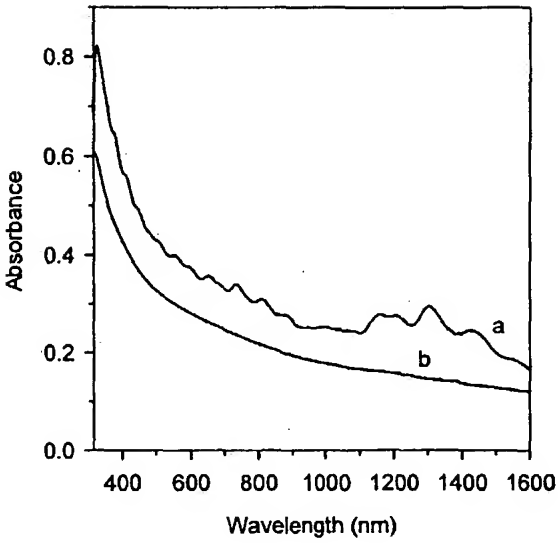


Figure 4

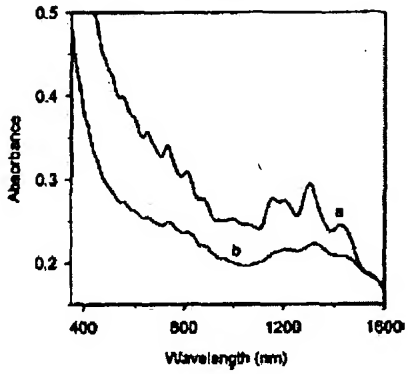


Figure 5

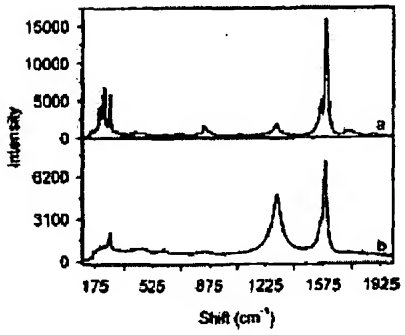


Figure 6

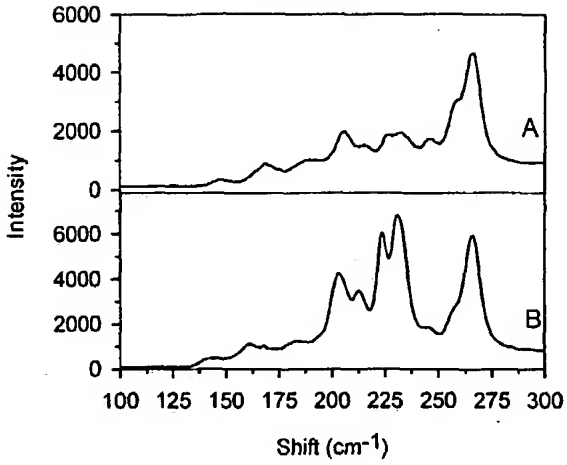


Figure 7

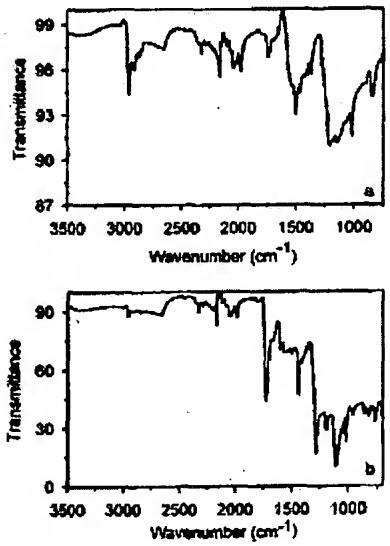


Figure 8

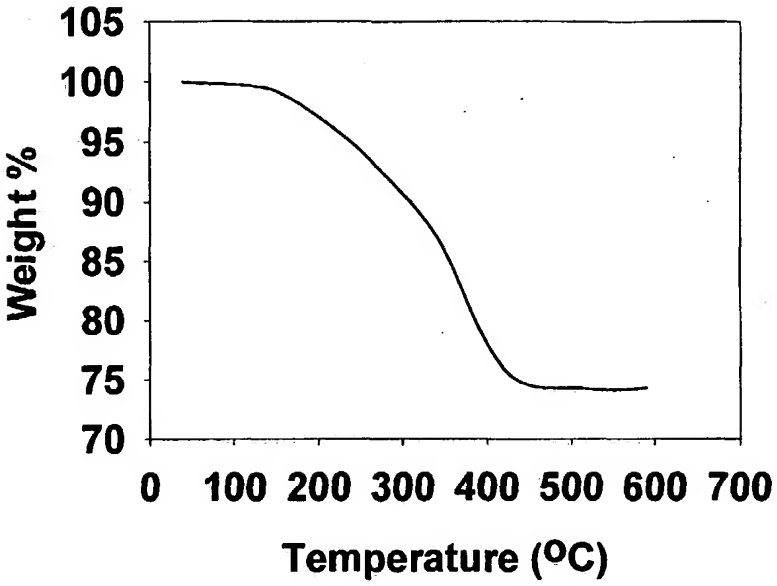


Figure 9

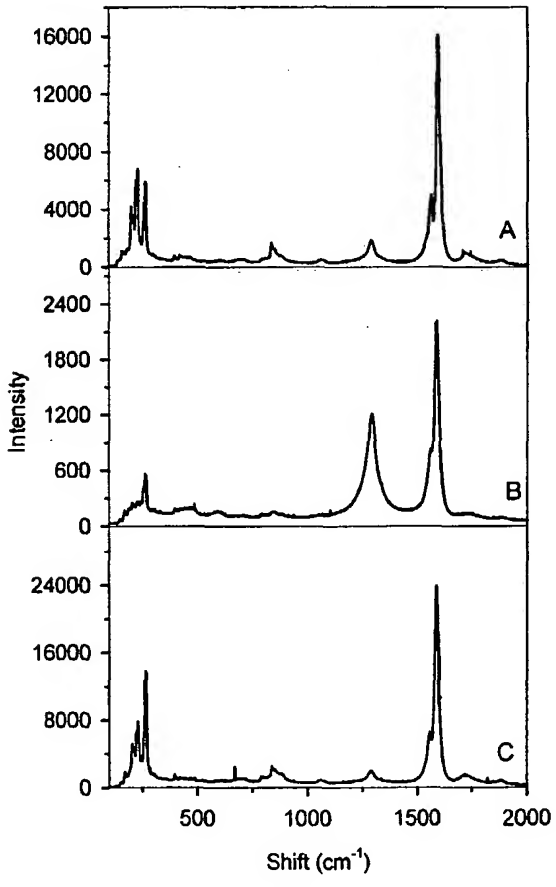
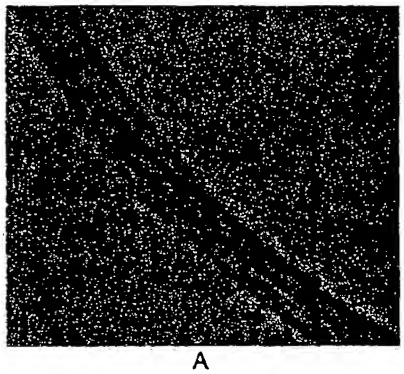
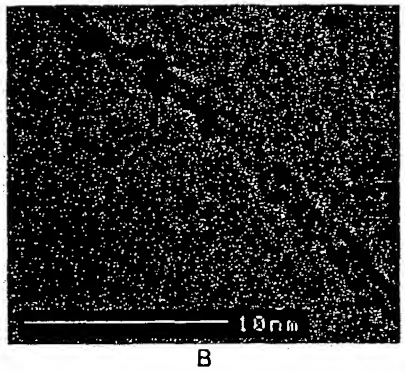


Figure 10



A



B

Figure 11

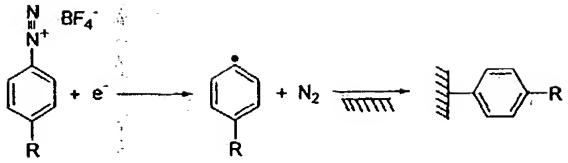
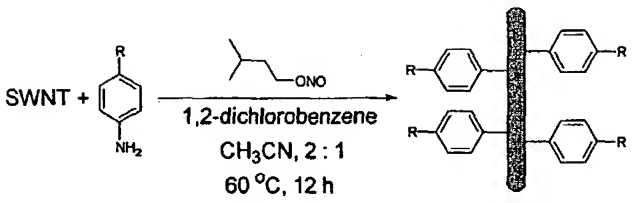


Figure 12



16, R = Cl
17, R = *tert*-butyl
18, R = CO_2CH_3
19, R = NO_2
20, R = COOH

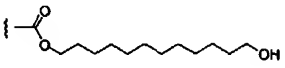
21, R = 

Figure 13

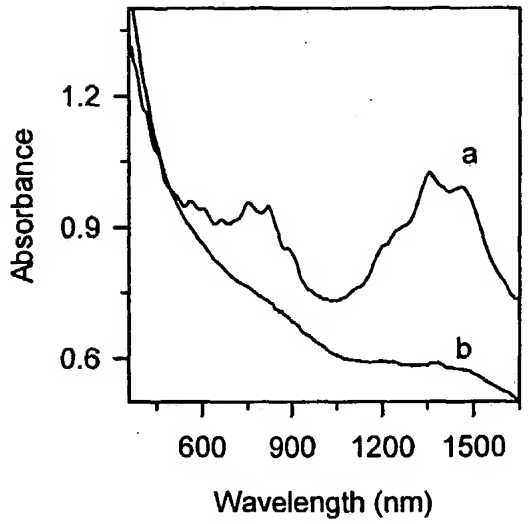


Figure 14

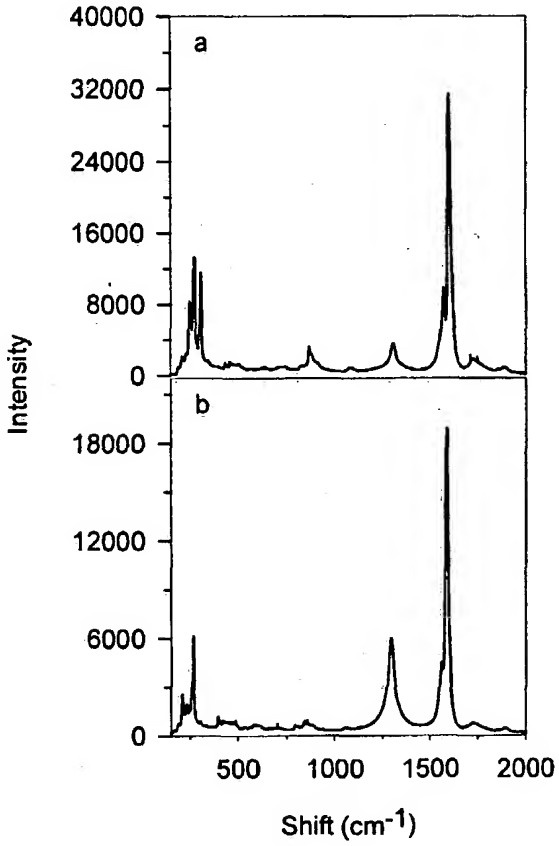


Figure 15

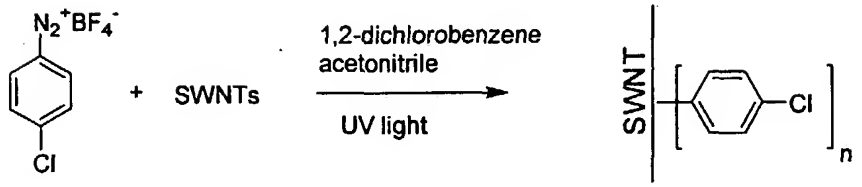


Figure 16

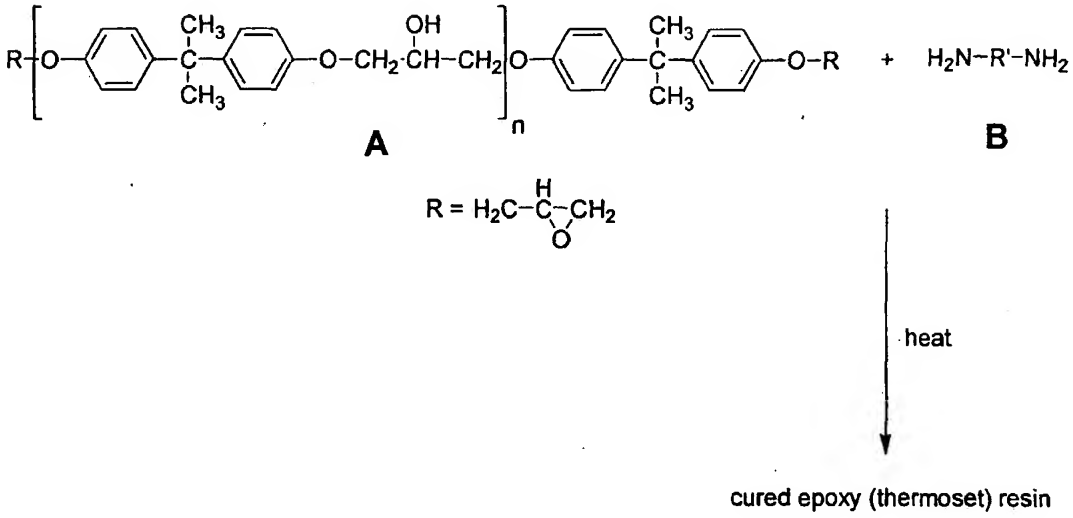


Figure 17

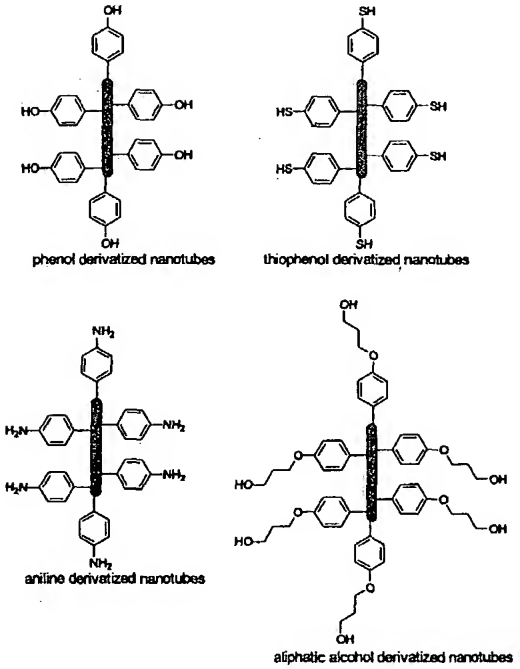


Figure 18

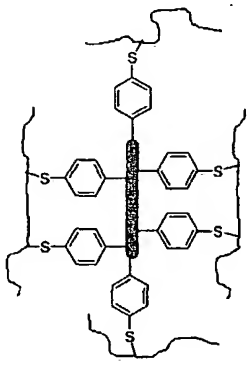


Figure 19

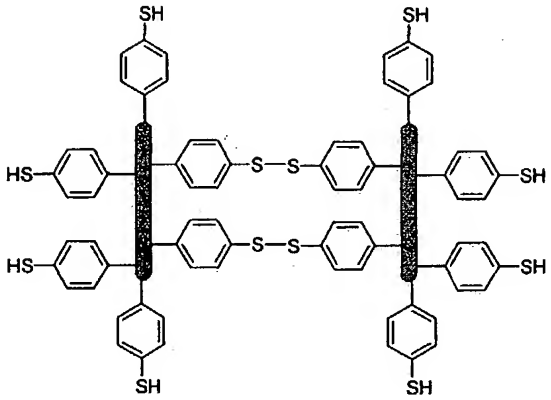


Figure 20

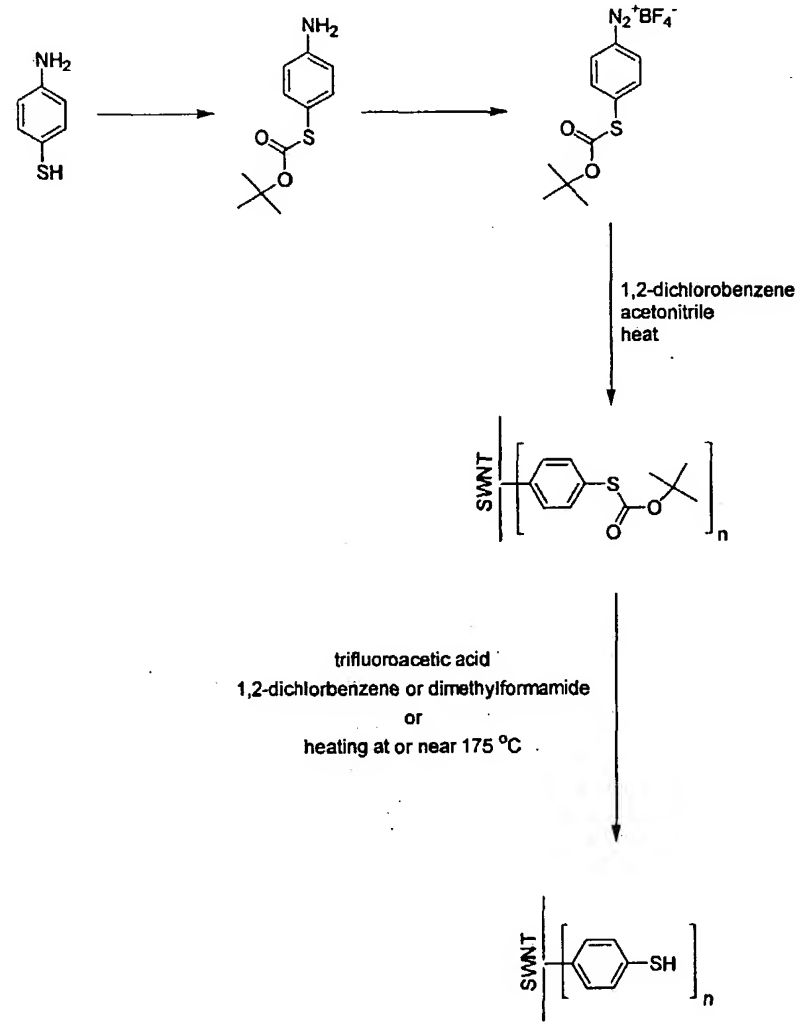

NH2
SH
NH2
S
O
O
N2+BF4-
S
O
O
1,2-dichlorobenzene
acetonitrile
heat
SWNT
S
O
O
n
trifluoroacetic acid
1,2-dichlorbenzene or dimethylformamide
or
heating at or near 175 °C
SWNT
SH
n

Figure 21

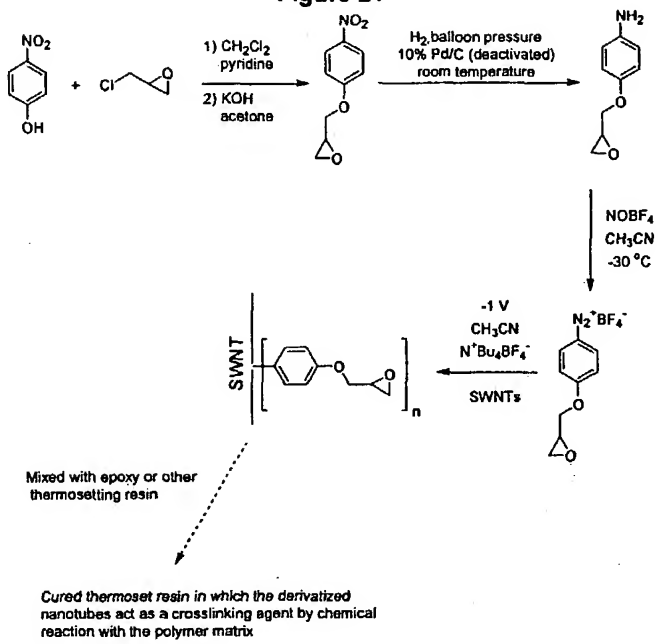


Figure 22

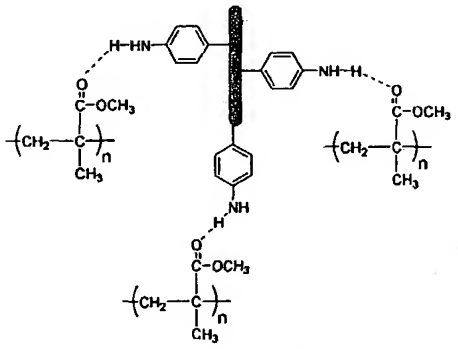


Figure 23